

## Your competent partner in the implementation of solar power plants



Speed, flexibility and reliability all play an important role in the implementation of solar power plants. Fulfilling these requirements, as well as offering maximum safety standards for electrical equipment, have been the challenges FEAG Sangerhausen has faced as a competent partner to our customers for many years. We have an innovative and extensive product portfolio for substations and distribution systems. Our engineers have developed a wide range of solutions particularly for solar power generation applications. These include junction boxes and generator junction boxes with a modular design that can still be customized to fit your needs. Our prefabricated container stations ensure that the solar power plants reliably supply power to the grid.



### Area Junction Boxes

Area junction boxes are used to connect a flexible number of PV modules. In addition to collecting the current, extensive protective measures are also integrated into the system. A particular highlight is the simple plug-in system that allows the PV modules to be connected quickly, easily and safely.

#### Main features at a glance:

- » Modular structure for a flexible number of strings
- » Individual adjustment of electrical equipment in accordance with your system design and the technical framework
- » Extensive protective measures in the overall electrical design such as lightning protection and high performance switching devices
- » Optionally equipped with analysis and monitoring functions to ensure that the system runs efficiently
- » Universal cable connections
- » Innovative connector system to connect the string cables easily and safely
- » Designed for outdoor use and for a long life time



## Generator Junction Boxes

Depending on the size of the solar power plant and the particular plant design, additional generator junction boxes can be used between the area junction boxes and the inverter station. The generator junction boxes have the task of merging the currents of a flexible number of area junction boxes. Extensive protective measures in the electrical system are integrated in the generator junction boxes just like in the area junction boxes. Generator junction boxes are also ideal for the cost-effective implementation of analysis and measurement functions.

### Main features at a glance:

- » Modular structure for connecting a flexible number of area junction boxes
- » Optionally equipped with analysis and monitoring functions to ensure that the system runs efficiently
- » Universal cable connection for copper or aluminium wires, and for large cross-sections
- » Easy-to- install connection design

## Containerstation

### Utilization:

Today container solutions are commonly used in connecting distributed energy generation systems, such as solar systems to public grids. Integrated container solutions offer the advantage that they can be very flexible and quickly and easily built at various sites without expensive building measures.



### Technical specification:

At the factory, the container stations are fully equipped with electrical components and all cable connections are connected as required. Thus only external connections have to be made on the site for which the container is already pre-equipped.

Quick operational readiness and easy transport save valuable time and expensive installation. The planning and construction of the container stations are tailored to the project's requirements

We can offer container stations for your projects such as

- » Inverter stations
- » Grid connection stations or
- » Complete switching station modules (E-Houses).